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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2007; month=12; day=10; hr=15; min=8; sec=52; ms=575;]

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Application No: 10574084 Version No: 1.0

Input Set:

Output Set:

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Finished: 2007-11-19 20:09:22.617
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 459 ms
Total Warnings: 43
Total Errors: 0
No. of SeqIDs Defined: 45
Actual SeqID Count: 45

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Input Set:

Output Set:

Started: 2007-11-19 20:09:21.158
Finished: 2007-11-19 20:09:22.617
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 459 ms
Total Warnings: 43
Total Errors: 0
No. of SeqIDs Defined: 45
Actual SeqID Count: 45

Error code	Error Description
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<120> A method of modulating cell survival, differentiation and/or synaptic plasticity

<130> P 810 PC00

<140> 10574084

<141> 2007-11-19

<160> 45

<170> PatentIn version 3.1

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<212> PRT

<213> Artificial sequence

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<210> 3

<211> 12

<212> PRT

<213> Artificial sequence

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<223> rat NCAM Ig3 fragment: amino acid residues 213-224

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<210> 4

<211> 9

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<210> 5

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<223> rat NCAM Ig2 fragment: amino acid residues 144-146

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Asp Val Arg

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<210> 6

<211> 7

<212> PRT

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<210> 8

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<212> PRT

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Lys Glu Gly Glu Asp
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<212> PRT

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Ile Arg Gly Ile Lys Lys Thr Asp
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<210> 10

<211> 14

<212> PRT

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<210> 11

<211> 5

<212> PRT

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<210> 12

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<212> PRT

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<223> rat NCAM Ig3 fragment: amino acid residues 194-205

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Thr Val Gln Ala Arg Asn Ser Ile Val Asn Ala Thr
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<210> 13

<211> 9

<212> PRT

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Ser Ile His Leu Lys Val Phe Ala Lys
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<210> 14

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<212> PRT

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<223> rat NCAM Ig2 fragment: amino acid residues 150-158

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<210> 15

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<212> PRT

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<223> rat NCAM Ig2 fragment: amino acid residues 146-157

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Arg Phe Ile Val Leu Ser Asn Asn Tyr Leu Gln Ile
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Lys Lys Asp Val Arg Phe Ile Val Leu Ser Asn Asn Tyr Leu Gln Ile
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<223> rat NCAM Ig2 fragment: amino acid residues 108-119

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Gln Glu Phe Lys Glu Gly Glu Asp Ala Val Ile Val
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<211> 11

<212> PRT

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<220>

<223> rat NCAM Ig2 fragment: amino acid residues 111-121

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Lys Glu Gly Glu Asp Ala Val Ile Val Cys Asp
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<210> 19

<211> 12

<212> PRT

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<223> rat NCAM Ig1 fragment: amino acid residues 10-21

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Gly Glu Ile Ser Val Gly Glu Ser Lys Phe Phe Leu
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<210> 20

<211> 21

<212> PRT

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<223> rat NCAM Ig3 fragment: amino acid residues 243-263

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Lys His Ile Phe Ser Asp Asp Ser Ser Glu Leu Thr Ile Arg Asn Val
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Asp Lys Asn Asp Glu
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<210> 21

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<223> rat NCAM Ig1 fragment : amino acid residues 10-21 containing mutation F19A

<400> 21

Gly Glu Ile Ser Val Gly Glu Ser Lys Ala Phe Leu
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<210> 22

<211> 12

<212> PRT

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<223> rat NCAN Ig1 fragment: amino acid residues 10-21 containing mutations F19A and F20A

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Gly Glu Ile Ser Val Gly Glu Ser Lys Ala Ala Leu
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<210> 23

<211> 21

<212> PRT

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<223> chicken NCAM Ig3 fragment: amino acid residues 243-263

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Asp Lys Ser Asp Glu
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<210> 24

<211> 10

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<223> rat NCAM Ig3 fragment: amino acid residues 244-253

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<223> chicken NCAM Ig3 fragment: amino acid residues 243-252

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Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
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<210> 26

<211> 9

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<223> rat NCAM Ig3 fragment: amino acid residues 281-289 containing mutations K285A and F287S

<400> 26

Ser Ile His Leu Ala Val Ala Ala Lys
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<210> 27

<211> 9

<212> PRT

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<223> rat NCAM Ig3 fragment: amino acid residues 281-289 containing mutations K285A and F287G

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Ser Ile His Leu Ala Val Gly Ala Lys
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<210> 28

<211> 12

<212> PRT

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<223> rat NCAM Ig2 fragment: amino acid residues 172-182

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Gly Arg Ile Leu Ala Arg Gly Glu Ile Asn Phe Lys
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tctctcgaga actgcaggta gatattgtt 29

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aaacccgggt tacttgcaa agacctt

27

<210> 31

<211> 25

<212> DNA

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gaatacgtaa ctgtccaggc cagac

25

<210> 32

<211> 27

<212> DNA

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<223> lower PCR primer

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aaaccttaggt tacttgcaa agacctt

27

<210> 33

<211> 75

<212> DNA

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ctgtgtcaag tggca 75

<210> 34

<211> 36

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<211> 39

<212> DNA

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<223> lower PCR primer

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ggttaacgcc gaactgtcgc cactgaagat gtgcttctc 39

<210> 36

<211> 45

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<223> lower PCR primer

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<211> 16

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<223> rat NCAM Ig2 fragment: amino acid residues 133-148

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Lys His Lys Gly Arg Asp Val Ile Leu Lys Asp Val Arg Phe Ile
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<210> 40

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> NCAM Ig1 fragment: CD-strands

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Ala Phe Ser Pro Asn Gly Glu Lys Leu Ser Pro Asn Gln
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<210> 41

<211> 14

<212> PRT

<213> Artificial sequence

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<223> NCAM Ig1 fragment: FG-strands

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<210> 42

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> NCAM Ig2 fragment: CD-strands

<400> 42

Asp Val Arg Arg Gly Ile Lys Lys Thr Asp
1 5 10

<210> 43

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> NCAM Ig2 fragment: EF-strands

<400> 43

Gln Ile Arg Gly Ile Lys Lys Thr Asp
1 5

<210> 44

<211> 858

<212> PRT

<213> Rattus norvegicus

<400> 44

Met Leu Arg Thr Lys Asp Leu Ile Trp Thr Leu Phe Phe Leu Gly Thr
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20 25 30

Val Gly Glu Ser Lys Phe Phe Leu Cys Gln Val Ala Gly Asp Ala Lys
35 40 45

Asp Lys Asp Ile Ser Trp Phe Ser Pro Asn Gly Glu Lys Leu Ser Pro
50 55 60

Asn Gln Gln Arg Ile Ser Val Val Trp Asn Asp Asp Asp Ser Ser Thr
65 70 75 80

Leu Thr Ile Tyr Asn Ala Asn Ile Asp Asp Ala Gly Ile Tyr Lys Cys
85 90 95

Val Val Thr Ala Glu Asp Gly Thr Gln Ser Glu Ala Thr Val Asn Val
100 105 110

Lys Ile Phe Gln Lys Leu Met Phe Lys Asn Ala Pro Thr Pro Gln Glu
115 120 125

Phe Lys Glu Gly Glu Asp Ala Val Ile Val Cys Asp Val Val Ser Ser
130 135 140

Leu Pro Pro Thr Ile Ile Trp Lys His Lys Gly Arg Asp Val Ile Leu
145 150 155 160

Lys Lys Asp Val Arg Phe Ile Val Leu Ser Asn Asn Tyr Leu Gln Ile
165 170 175

Arg Gly Ile Lys Lys Thr Asp Glu Gly Thr Tyr Arg Cys Glu Gly Arg
180 185 190

Ile Leu Ala Arg Gly Glu Ile Asn Phe Lys Asp Ile Gln Val Ile Val
195 200 205

Asn Val Pro Pro Thr Val Gln Ala Arg Gln Ser Ile Val Asn Ala Thr
210 215 220

Ala Asn Leu Gly Gln Ser Val Thr Leu Val Cys Asp Ala Asp Gly Phe
225 230 235 240

Pro Glu Pro Thr Met Ser Trp Thr Lys Asp Gly Glu Pro Ile Glu Asn
245 250 255

Glu Glu Glu Asp Asp Glu Lys His Ile Phe Ser Asp Asp Ser Ser Glu
260 265 270

Leu Thr Ile Arg Asn Val Asp Lys Asn Asp Glu Ala Glu Tyr Val Cys
275 280 285

Ile Ala Glu Asn Lys Ala Gly Glu Gln Asp Ala Ser Ile His Leu Lys
290 295 300

Val Phe Ala Lys Pro Lys Ile Thr Tyr Val Glu Asn Gln Thr Ala Met
305 310 315 320

Glu Leu Glu Glu Gln Val Thr Leu Thr Cys Glu Ala Ser Gly Asp Pro
325 330 335

Ile Pro Ser Ile Thr Trp Arg Thr Ser Thr Arg Asn Ile Ser Ser Glu
340 345 350

Glu Lys Ala Ser Trp Thr Arg Pro Glu Lys Gln Glu Thr Leu Asp Gly
355 360 365

His Met Val Val Arg Ser His Ala Arg Val Ser Ser Leu Thr Leu Lys
370 375 380

Ser Ile Gln Tyr Thr Asp Ala Gly Glu Tyr Ile Cys Thr Ala Ser Asn
385 390 395 400

Thr Ile Gly Gln Asp Ser Gln Ser Met Tyr Leu Glu Val Gln Tyr Ala
405 410 415

Pro Lys Leu Gln Gly Pro Val Ala Val Tyr Thr Trp Glu Gly Asn Gln
420 425 430

Val Asn Ile Thr Cys Glu Val Phe Ala Tyr Pro Ser Ala Thr Ile Ser
435 440 445

Trp Phe Arg Asp Gly Gln Leu Leu Pro Ser Ser Asn Tyr Ser Asn Ile
450 455 460

Lys Ile Tyr Asn Thr Pro Ser Ala Ser Tyr Leu Glu Val Thr Pro Asp
465 470 475 480

Ser Glu Asn Asp Phe Gly Asn Tyr Asn Cys Thr Ala Val Asn Arg Ile
485 490 495

Gly Gln Glu Ser Leu Glu Phe Ile Leu Val Gln Ala Asp Thr Pro Ser
500 505 510

Ser Pro Ser Ile Asp Arg Val Glu Pro Tyr Ser Ser Thr Ala Gln Val
515 520 525

Gln Phe Asp Glu Pro Glu Ala Thr Gly Gly Val Pro Ile Leu Lys Tyr
530 535 540

Lys Ala Glu Trp Lys Ser Leu Gly Glu Ala Trp His Ser Lys Trp
545 550 555 560

Tyr Asp Ala Lys Glu Ala Asn Met Glu Gly Ile Val Thr Ile Met Gly
565 570 575

Leu Lys Pro Glu Thr Arg Tyr Ala Val Arg Leu Ala Ala Leu Asn Gly
580 585 590

Lys Gly Leu Gly Glu Ile Ser Ala Ala Thr Glu Phe Lys Thr Gln Pro
595 600 605

Val Arg Glu Pro Ser Ala Pro Lys Leu Glu Gly Gln Met Gly Glu Asp
610 615 620

Gly Asn Ser Ile Lys Val Asn Leu Ile Lys Gln Asp Asp Gly Gly Ser
625 630 635 640

Pro Ile Arg His Tyr Leu Val Lys Tyr Arg Ala Leu Ala Ser Glu Trp
645 650 655

Lys Pro Glu Ile Arg Leu Pro Ser Gly Ser Asp His Val Met Leu Lys
660 665 670

Ser Leu Asp Trp Asn Ala Glu Tyr Glu Val Tyr Val Val Ala Glu Asn
675 680 685

Gln Gln Gly Lys Ser Lys Ala Ala His Phe Val Phe Arg Thr Ser Ala
690 695 700

Gln Pro Thr Ala Ile Pro Ala Asn Gly Ser Pro Thr Ala Gly Leu Ser
705 710 715 720

Thr Gly Ala Ile Val Gly Ile Leu Ile Val Ile Phe Val Leu Leu Leu
725 730 735

Val Val Met Asp Ile Thr Cys Tyr Phe Leu Asn Lys Cys Gly Leu Leu
740 745 750

Met Cys Ile Ala Val Asn Leu Cys Gly Lys Ala Gly Pro Gly Ala Lys

755

760

765

Gly Lys Asp Met Glu Glu Gly Lys Ala Ala Phe Ser Lys Asp Glu Ser
770 775 780

Lys Glu Pro Ile Val Glu Val Arg Thr Glu Glu Glu Arg Thr Pro Asn
785